

# Reclamation Project Worksheet



Date: \_\_\_\_\_

## Customer Information

Foundry Name: \_\_\_\_\_

Foundry Contact: \_\_\_\_\_ Title: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Country: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Website: \_\_\_\_\_

## Project Objective

## Foundry Information

Type of Metal Cast: ☐ Iron, Gray ☐ Iron, Malleable ☐ Iron, Ductile ☐ Steel  
☐ Brass, Bronze ☐ Aluminum ☐ Bronze ☐ Other \_\_\_\_\_

## Select your application and complete the appropriate section.

☐ Green Sand to Core Sand ☐ Green Sand to Green Sand ☐ Chemical to Chemical

## Green Sand to Core Sand

Do you need a green sand to core sand solution? ☐ Check this box.

To recommend the best fit for your operation, we'll need to learn more—let's start the conversation.

Email us at [sales@simpsongroup.com](mailto:sales@simpsongroup.com).

## Green Sand to Green Sand

### Mold Line – Amount of New Sand Added

Sand Type: ☐ Silica (Quartz) ☐ Olivine ☐ Ceramic Media ☐ Other \_\_\_\_\_  
Weight of Sand (Tons/Yr) \_\_\_\_\_ Cost of Sand (including Freight) USD/Ton \_\_\_\_\_

### Core Rooms – Amount of New Sand

Sand Type: ☐ Silica (Quartz) ☐ Olivine ☐ Ceramic Media ☐ Other \_\_\_\_\_  
Weight of Sand (Tons/Yr) \_\_\_\_\_ Cost of Sand (including Freight) USD/Ton \_\_\_\_\_

### Green Sand Additives – Total Amount Purchased

What % of total additives is bentonite? \_\_\_\_\_ Total weight of all additives (Tons/Yr) \_\_\_\_\_  
Total Cost of all additives (including Freight) USD/Ton \_\_\_\_\_

### Disposal Costs – How Much Do You Pay to Dispose of Green Sand?

Weight of Disposal Sand (Tons/Yr) \_\_\_\_\_ Cost of Disposal Sand (including Freight) USD/Ton \_\_\_\_\_

### % Through Put Yield (expected)

\*\*Results may vary depending on foundry processes

50%–90% \_\_\_\_\_

### % Active Clay in Return Sand (MB Clay) (expected)

% Reclaimable

3%–12% \_\_\_\_\_

Yearly Production Days: \_\_\_\_\_ Planned Reclamation Hours Per Day: ☐ 8 ☐ 16 ☐ 24

## Chemical to Chemical

### Amount of New Sand Purchased

Sand Type: ☐ Silica (Quartz) ☐ Olivine ☐ Ceramic Media ☐ Other \_\_\_\_\_  
Weight of Sand (Tons/Yr) \_\_\_\_\_ Cost of Sand (including Freight) USD/Ton \_\_\_\_\_

### % Through Put Yield (expected)

\*\*Results may vary depending on foundry processes

50%–90% \_\_\_\_\_

### Binding/Resin Agent

Type: ☐ Phenolic Urethane No Bake ☐ Furan No Bake ☐ Urethane No Bake/Polyol  
☐ Ester Cured Phenolic/Alphaset

### Disposal Costs – How Much Do You Pay to Dispose of Chemical Sand

Disposal or beneficial reuse before processing.

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## Chemical to Chemical (continued)

### Weight of Disposal Sand

Weight of Disposal Sand (Tons/Yr) \_\_\_\_\_ Cost of Disposal Sand (including Freight) USD/Ton \_\_\_\_\_

☐ None ☐ Mechanical ☐ Thermal

### How Do You Plan to Use Reclaimed Sand?

\*Identify TOTAL tones of sand to be used for each area

Sand Type	Weight		Expected % Reclaimed Sand		Reclaim Opportunity
Facing Sand Only	Tons/Yr _____	X	% _____	=	_____
Backing Sand Only	Tons/Yr _____	X	% _____	=	_____
Core	Tons/Yr _____	X	% _____	=	_____
Entire Mold (Both Facing & Backing Sand)	Tons/Yr _____	X	% _____	=	_____
Total Sand Used _____		Total Reclaim Opportunity _____			

\*Total Sand Used must be equal to amount of New Sand Purchased from step 1

\*Total Reclaim Opportunity cannot be greater than total purchased times Yield %

Yearly Production Days: \_\_\_\_\_

Planned Reclamation Hours Per Day: ☐ 8 ☐ 16 ☐ 24

RETURN TO:

**SIMPSON**

2135 City Gate Lane Suite 500  
Naperville, IL 60563

Or email: [sales@simpsongroup.com](mailto:sales@simpsongroup.com) or your local representative